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APPLICATION NO.	FILING DATE	. FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/519,083	07/08/2005	Jiing-Ren Liou		004974.01057	8077
	7590 04/20/2007 TTCOFF, LTD.			EXAMINER	
1100 13th STREET, N.W. SUITE 1200				SWOPE, SHERIDAN	
	N, DC 20005-4051			ART UNIT	PAPER NUMBER
		•		1652	
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE		DELIVERY MODE	
31 DAYS		04/20/2007		PAPER	

## Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)					
	10/519,083	LIOU, JIING-REN					
Office Action Summary	Examiner	Art Unit					
	Sheridan L. Swope	1652					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on	Responsive to communication(s) filed on						
	action is non-final.						
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>18-50</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6) Claim(s) is/are rejected.	Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.	Claim(s) is/are objected to.						
8) Claim(s) 18-50 are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
<ol> <li>Certified copies of the priority documents have been received.</li> </ol>							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
		•					
Attachment(s)							
1) Notice of References Cited (PTO-892)		4) Interview Summary (PTO-413)					
Notice of Draftsperson's Patent Drawing Review (PTO-948)     Information Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail 5) Notice of Informa	Date Il Patent Application					
Information Disclosure Statement(s) (PTO/SB/08)     Paper No(s)/Mail Date	6) Other:						

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## DETAILED ACTION

Claims 18-50 are pending.

## Election/Restrictions

Restriction is required under 35 U.S.C. 121.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, Claim 49, in part, and Claims 18 and 19, drawn to a MerTK polypeptide.

Group II, Claim 49, in part, Claims 20-24, drawn to an antibody directed to a MerTK polypeptide.

Group III, Claim 49, in part, and Claims 25-33 and 50, drawn to a polynucleotide encoding a MerTK polypeptide.

Group IV, Claim 36, in part, and Claims 37-39, drawn to a method for detecting a MerTK polypeptide.

Group V, Claim 36, in part, and Claims 40 and 41, drawn to a method for detecting a polynucleotide encoding a MerTK polypeptide.

Group VI, Claim 42, drawn to a method of treatment.

Group VII, Claims 43-45, drawn to a method for identifying binding partners for a MerTK polypeptide.

Group VIII, Claims 46-48, drawn to a method for identifying agents that regulate expression of a polynucleotide encoding a MerTK polypeptide.

For each of Inventions I-VI above, restriction to one of the following is also required under 35 USC 121. Therefore, election is required of one of Inventions I-VI <u>and</u> one or more of Inventions (A)-(O), as indicated.

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If Invention IV is elected, elect one of:

- (A) Gastrointestinal disorder
- (B) Liver disorder
- (C) Metabolic disorder
- (D) Neurological disorder
- (E) Cardiovascular disorder
- (F) Hematological disorder
- (G) Reproductive disorder
- (H) Endocrine disorder
- (I) Hormonal disorder
- (J) Respiratory disorder
- (K) Genitourinary disorder

If Invention is elected, also elect one of:

- (L) Antisense oligonucleotide
- (M) Antibody

If Invention VIII is elected, elect one of:

- (N) In vivo
- (O) In vitro

The inventions listed as Groups I-VIII do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical feature for the following reasons: The technical feature linking Groups I-VIII appears to be that they all relate to a kinase polypeptides. However, kinase polypeptides were well known in the art. Moreover, Graham et al, 1996 teach a polynucleotide comprising at least 8 contiguous nucleotides of SEQ ID NO: 3, which anticipates Claim 28. Therefore Groups I-VIII share no special technical feature as defined by PCT Rule 13.2, as it does not define a contribution over the prior art. Furthermore, the products of Groups I-III do not share a special common structural and functional feature while, the methods of Groups IV-VIII do not use the same reagents or produce the same results. In addition, the methods of Groups IV-VIII do not comprise all of the methods for making or using the products of Groups I-III. Accordingly,

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Groups I-VIII are not so linked by the same or a corresponding special technical feature as to form a single general inventive concept.

Searching more than one of Groups I-VIII would represent a burden on the Office for the following reasons. Because the products of Groups I-III do not share a special structural and functional feature, a search for any one said product would not encompass a search for any other said products. Thus, a search for more than one of the products of Groups I-III would be a burden on the Office. A search for any one of the methods of Groups IV-VIII would not encompass a search for any other said methods because the methods do not share a special technical feature of steps and products used, or results produced. Thus, the search for more than one of Groups IV-VIII would be a burden on the Office. A search of any one of the products of Groups I-III would not encompass a search of any of the methods of Groups IV-VIII, or vice versa, because said methods are not the only methods of making or using said products. Thus, a search of any one of the products of Groups I-III with any of the methods of Groups IV-VIII would be a burden on the Office.

These inventions lack Unity of Invention for the reasons given above. Furthermore, each invention has acquired a separate status in the art due to their recognized divergent subject matter and, thus, searching more than one invention would be a burden on the Office. Therefore, restriction for examination purposes, as indicated, is proper.

These inventions are distinct for the reasons given above and have acquired a separate status in the art due to their recognized divergent subject matter, as shown by their different classification. Furthermore, as explained above, searching more than one invention would be a burden on the Office. Therefore, restriction for examination purposes, as indicated, is proper. If

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Applicants should traverse the restriction based on an argument that inventions are not distinct, they should provide evidence as to why the restricted inventions are obvious over their elected invention.

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder. All claims directed a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained.

Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

To insure that each document is properly filed in the electronic file wrapper, it is requested that each of amendments to the specification, amendments to the claims, Applicants' remarks, requests for extension of time, and any other distinct papers be submitted on separate pages.

It is also requested that Applicants identify support, within the original application, for any amendments to the claims and specification.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sheridan L. Swope whose telephone number is 571-272-0943. The examiner can normally be reached on M-F; 9:30-7 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ponnathapura Achutamurthy can be reached on 571-272-0928. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published application may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

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system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on the access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sheridan Swope, Ph.D. Art Unit 1652

> SHERIDAN SWOPE, PH.D. PRIMARY EXAMINER